



SYSTEM AND METHOD FOR PERFORMING DIAGNOSTICS ON A  
MOBILE STATION USING OVER-THE-AIR TRANSFER  
OF INTERPRETED BYTE-CODE PROGRAM

ABSTRACT OF THE DISCLOSURE

There is disclosed a mobile station diagnostic testing system for use in a wireless network comprising a plurality of base stations capable of communicating with a plurality of mobile stations. The mobile station diagnostic testing system tests the operation of a first mobile station. The mobile station diagnostic testing system comprises: 1) a database for storing a mobile station diagnostic testing file comprising a mobile station diagnostic testing program in interpreted byte-code format; and 2) a diagnostics controller coupled to the database for receiving a notification indicating that a fault has occurred in the first mobile station. In response to receipt of the notification, the mobile diagnostics testing system retrieves the mobile station diagnostic testing file from the database and transmits it to the first mobile station. Receipt of the mobile station diagnostic testing file causes the mobile station to execute the mobile station diagnostic testing program.